

715,878

ABSTRACT

A stent designed for catheter delivery to a target neurovascular site via a tortuous path, in a contracted state, and deployment at the target site, in an expanded state, is disclosed. The stent includes a plurality of expandable tubular members, where member is composed of a continuous wire element forming a plurality of wave segments, and segment contains a pair of opposite looped peaks having a wave shape such that the distance between adjacent sides of a wave, on proceeding from a peak toward opposite peaks, increases monotonically with an inflection point therebetween. The expandable tubular members are joined through adjacent peaks by axial connectors. Radial expansion of the stent from a contracted to expanded state is accommodated by movement of adjacent wave-segment peaks away from one another, without significant change in the axial dimension of the stent. Also disclosed are a system incorporating the stent, and a method of treating a neurovascular abnormality.